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## WHAT IS CLAIMED IS:

1. A method for conforming a design with existing design requirements, the method comprising the steps of:

inserting limits into an input file of relevant design parameters;

inputting the input file into an analysis algorithm;

applying the analysis algorithm to perform calculations to generate an analyses output;

comparing the analyses output to the limits to generate a design output; and

issuing an alert indicative of whether the comparison identifies an exceedance of the limits.

- 2. A method as claimed in claim 1 wherein the limits comprise specified quantifiable limits.
- 3. A method as claimed in claim 1 wherein the step of inserting limits comprises the step of using a web-based tool to electronically read the limits.
- 4. A method as claimed in claim 1 wherein the step of comparing comprises the step of creating a sub-routine to automatically compare the analyses output with the limits.
- 5. A method as claimed in claim 4 wherein the analyses output comprises engineering calculations relevant to the design.
- 6. A method as claimed in claim 5 wherein the step of applying the analysis algorithm comprises the step of applying an exceedance detection algorithm.

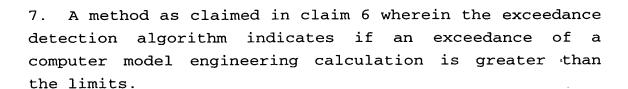
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- 8. A method as claimed in claim 1 wherein the step of issuing an alert comprises the step of issuing an alert message to a user.
  - 9. A method as claimed in claim 1 further comprising the step of outputting engineering specifications and performance results of the design.
  - 10. A system for conforming a design with existing design requirements, the system comprising:

an input file containing at least predetermined design practice limits;

an analysis algorithm for comparing the input file with design criteria to generate an output;

an exceedance algorithm for comparing the output to the predetermined design practice limits; and

an alert indicator for indicating whether the exceedance algorithm comparison identifies an exceedance of the predetermined design practice limits.

- 11. A system as claimed in claim 10 wherein the predetermined design practice limits comprise specified quantifiable limits.
- 25 12. A system as claimed in claim 10 wherein the predetermined design practice limits are electronically readable.
  - 13. A system as claimed in claim 12 further comprising a web-based tool to electronically read the predetermined design practice limits.

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- 14. A system as claimed in claim 10 wherein the exceedance algorithm comprises a sub-routine to automatically compare the output with the predetermined design practice limits.
- 5 15. A system as claimed in claim 14 wherein the output comprises engineering calculations relevant to the design.
  - 16. A system as claimed in claim 10 wherein the exceedance detection algorithm indicates when an exceedance of a computer model engineering calculation is greater than the predetermined design practice limits.
  - 17. A system as claimed in claim 10 wherein the alert indicator comprises an alert message issued to a user.
  - 18. A system as claimed in claim 10 further comprising engineering specifications and performance results of the design.